

TEST REPORT: 7191237393-CHM20-03-RC

Date: 29 MAY 2020

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Client's Ref:

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SUBJECT

Bacterial Filtration Efficiency (BFE)

CLIENT

SCGM BHD
PTD 109444, Jalan Sengkang
Kawasan Perusahaan Sri Sengkang
81000 Kulai
Johor, Malaysia

Attn : Dato' Sri Lee Hock Seng

SAMPLE SUBMISSION DATE / TEST DATE

13 May 2020 / 27 May 2020

DESCRIPTION OF SAMPLE

One sample of face mask labelled as "SCGM 3 Ply Surgical Mask" was submitted by the above company.



METHOD OF TEST

ASTM F2101-19 Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of *Staphylococcus aureus*.

Area contacting with the bacterial challenge: Inside of the mask

Flowrate: 28.3 ± 0.3 L/min

Mean particle size of the challenge aerosol: 3 µm ± 0.3 µm

Test area: Approximately 50 cm²



TÜV SÜD PSB

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RESULTS

Sample Description : SCGM 3 Ply Surgical Mask

Test sample/ controls	Stage 1, CFU	Stage 2, CFU	Stage 3, CFU	Stage 4, CFU	Stage 5, CFU	Stage 6, CFU	Sum of Total plate count for the 6 sieves, CFU	Average Count for Controls, CFU	BFE (%)	Average BFE (%)
-ve Control	0	0	0	0	0	0	0			
+ve Control 1	249	456	886	770	413	213	2987	2929		
+ve Control 2	207	413	826	712	504	209	2871			
Sample 1	0	0	0	0	0	3	3		99.90	99.84
Sample 2	0	0	0	0	1	3	4		99.86	
Sample 3	0	0	0	0	1	6	7		99.76	
Sample 4	0	0	0	0	0	6	6		99.80	
Sample 5	0	0	0	0	2	2	4		99.86	

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Notes :

CFU : Colony Forming Unit
BFE : Bacterial Filtration Efficiency

Remarks :

The above test results relate to the samples as received.

A handwritten signature in black ink, appearing to read 'Hwy'.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to read 'Randy'.

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS



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July 2011

